

WE CLAIM:

1 1. A mating assembly for detachably attaching a device to a mechanical substructure,
2 said assembly comprising in combination:

3 a) a pair of rails disposed on and coupled with opposed sides of the device;

4 b) a pair of spaced apart guides mounted upon the substructure for slidably
5 engaging and mating with said pair of rails upon attachment of the device to the substructure;

6 c) a cross member interconnecting said pair of rails; and

7 d) securing means for securing said cross member to the substructure.

1 2. A mating assembly as set forth in Claim 1 including a spring extending from one
2 rail of said pair of rails for electrically contacting a guide of said pair of guides to discharge any
3 static charge present.

1 3. A mating assembly as set forth in Claim 2 including at least one contact plate
2 extending from the substructure for sliding engagement with said spring.

1 4. A mating assembly as set forth in Claim 1 including a first electrical connector
2 attached to the device for engaging a second electrical connector mounted on the substructure
3 upon attachment of the device to the substructure.

1 5. A mating assembly as set forth in Claim 4 including an alignment pin extending
2 from a rail of said pair of rails for engaging a hole in a guide of said pair of guides to align said

3 first and second electrical conductors with one another.

1 6. A mating assembly as set forth in Claim 5 including a spring extending from one
2 rail of said pair of rails for electrically contacting a guide of said pair of guides to discharge any
3 static charge present.

1 7. A mating assembly as set forth in Claim 6 including at least one contact plate
2 extending from the substructure for sliding engagement with said spring.

1 8. A mating assembly as set forth in Claim 1 wherein each guide of said pair of
2 guides are identical.

1 9. A mating assembly as set forth in Claim 8 wherein each guide includes an
2 overhang adapted for slidable engagement with a respective rail of said pair of rails.

1 10. A mating assembly as set forth in Claim 1 including at least one contact plate
2 extending from the substructure and at least one recess disposed in a guide of pair of guides for
3 receiving said contact plate.

1 11. A mating assembly as set forth in Claim 10 including a spring extending from one
2 rail of said pair of rails for slidably engaging said contact plate to dissipate any electrostatic
3 charge present upon attachment of the device to the substructure.

1 12. A mating assembly as set forth in Claim 1 wherein the device includes a housing
2 adapted for coupling said pair of rails thereto.

1 13. A mating assembly as set forth in Claim 1 wherein the substructure includes an
2 apertured face plate for penetrably receiving the rail mounted device.

1 14. A mating assembly as set forth in Claim 13 wherein said securing means is
2 adapted to secure said cross member to the face plate.

1 15. A method for detachably attaching a device to a substructure, said method
2 comprising the steps of:

3 a) attaching a pair of rails to opposed sides of the device;

4 b) slidably engaging the pair of rails with a pair of guides mounted on the
5 substructure;

6 c) repositioning an alignment pin extending from one of the rails with a hole in
7 one of the guides to align an electrical connector of the device with an electrical connector
8 mounted on the substructure;

9 d) securing a cross member interconnecting the pair of rails with a face plate
10 attached to the substructure to secure the device with the substructure; and

11 e) dissipating any attendant electrostatic charge upon execution of said step of
12 sliding.

1 16. The method as set forth in Claim 15 wherein said step of dissipating includes the
2 step of translating a spring extending from a rail along the corresponding one of the guides.

1 17. The method as set forth in Claim 16 including the step of contacting a plate
2 secured in the guide and extending from the substructure with the spring during execution of said
3 step of translating.

1 18. A mating assembly for detachably attaching a device to a mechanical substructure,
2 said assembly comprising in combination:

3 a) a pair of rails disposed on and coupled with opposed sides of the device;

4 b) a pair of spaced apart guides mounted upon the substructure for slidably
5 engaging and mating with said pair of rails upon attachment of the device to the substructure;

6 c) at least one electrostatic discharge contact electrically coupled with the
7 substructure;

8 d) an electrostatic discharge spring extending from one rail of said pair of rails for
9 electrically contacting said electrostatic discharge contact to discharge any static charge present
10 in the device;

11 e) a cross member interconnecting said pair of rails; and

12 f) securing means for securing said cross member to the substructure.

1 19. A mating assembly as set forth in Claim 18 including an alignment pin extending

2 from a rail of said pair of rails for engaging a hole in a guide of said pair of guides to align said
3 first and second electrical conductors with one another.

1 20. A mating assembly as set forth in Claim 18 wherein said at least one electrostatic
2 discharge contact is recessed in at least one guide of said pair of guides.

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